

NOVOZHILOV, M.G., doktor tekhn. nauk; ZAPARA, S.A., kand. tekhn. nauk;  
REZNIKOV, N.A.

Basic trends in creating an efficient method of strip mining  
in Krivoy Rog Basin mines. Met. i gornorud. prom. no.1:44-  
48 Ja-F '65. (MIRA 18:3)

ACC NR: AR7001769

SOURCE CODE: UR/0169/66/000/010/G018/G019

AUTHOR: Zapara, S. A.; Sergiychuk, A. G.; Voznyuk, L. P.; Krupin, V. F.

TITLE: Dependence of the intensity of seismic vibrations on the number of steps of retardation and on the distance from the explosion site

SOURCE: Ref. zh. Geofizika, Abs. 10G120

REF SOURCE: [Sb. nauchn. tr.] N.-i. gornorudn. in-t. USSR, no. 8, 1965, 168-172

TOPIC TAGS: seismic wave, ~~seismic vibrations, geologic explosion~~, MINING, ENGINEERING, DETONATION

ABSTRACT: The detonation of millisecond delay blasts with shot holes in a grid pattern in the Krivbass [section of the USSR] is difficult because the seismic waves occurring there considerably exceed the safety norm for buildings and installations located within 1 to 1.5 km of the explosion site. Experimental explosions with an identical total weight of explosives were detonated, the bores in the quarries being spaced at 3 to 5 m, generally in one line. For each explosion, two seismic stations were installed over the length of the profile

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UDC: 550.341

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(along the granites). The seismographs of each station were divided into two groups and seismic vibrations in three mutually perpendicular directions were recorded at two different points of the profile. The distances from the site of the explosions to the site of the seismographs were constant: 250, 400, 750, and 900 m. Four explosions occurred; with, respectively, 11 bores with a charge of 3115 kg of explosives (with 10 m/sec intervals of delay between the consecutively exploded groups of bores in both cases); 10 bores with 2840 kg of explosives; and 12 bores with 3250 kg of explosives. The delays between bores was 10 m/sec in the third case and 20 m/sec in the fourth. Results of the experimental explosions showed that the total explosive being equal, an increase in the number of groups of charges exploded at different times during the general blast, is always followed by a decrease in the intensity of seismic waves. Division of the total weight of explosives into 10 consecutive groups (9 degrees of delay) decreases the intensity of seismic vibration 4.2 times at a distance of 250 m, and 2.57 times at a distance of 900 m. When a considerable reduction of the seismic effect of mass explosions is necessary, the consecutive explosion of one shot hole after the other must be effected. Otherwise, shot holes should be planned with a maximum possible number of charges exploded at different times. The intensity of the exploded vibrations during millisecond delay explosions depends to a great

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ACC NR: AR7001769

degree on the volume of the delay interval, the decrease or the increase of which is accompanied by an increase in the seismic effect of the explosion. B. Rossi.  
[Translation of abstract] [GC]

SUB CODE: 08/

Card 3/3

NOTKINA, L.G.; ZAPARA, Ye.M.; GOLUBCHIK, M.G.; Primala uchastiye:  
BALYBERDINA, L.M.

Production of feed yeast from separation waste liquor.  
Sakh. prom. 36 no.7:21-24 JI '62. (MIRA 17:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut polimeriza-  
tsionnykh plastmass.

LEBEDEV, A.Ye.; ANTONOV, V.K.; TATSUYENKO, P.A.; ARSUZOV, V.A.; NEVOYSA, G.G.;  
Prinimali uchastiy: ZAPARENKO, V.Ye.; KARPOVETS, B.S.

Experience in the sintering of raw (unconcentrated) "tobacco"  
ore. Sbor. trud. UNIM no. MIRA-26 '65.

(MIRA 28:11)

ZAPARIN, I. (Krivoy Rog)

Because the place of the blast box was changed. Tekh.mbl. 29  
no.6:9 '61. (MIRA 14:7)

(Steel--Metallurgy)

ZAPARIN, V.K.; GUBIN, N.M.

Daytime and nighttime urinary excretion of macroelements and  
microelements by practically healthy people. Vrach. delo no.11:  
74-76 N'63 (MIRA 16:12)

1. Kafedry fakul'tetskoy khirurgii (za. - prof. A.Z.Tseytlin)  
i sudebnoy meditsiny (zav. - dotsent N.P.Marchenko) Khar'kov-  
skogo meditsinskogo instituta.

AUERMAN, L.Ya.; ZAPARINA, Ya.A.; STEPANOVA, E.I.; FEDOROVA, G.S.

Effect of various fats on bread quality. Izv.vys.ucheb.zav.pishch.  
tekh. no.4:74-77 '58. (MIRA 11:11)

1. Moskovskiy tekhnologicheskii institut pishchevoy promyshlennosti,  
Kafedra tekhnologii khlebopekarnogo proizvodstva, Spetslaboratoriya  
tekhnologii khlebopecheniya.  
(Bread) (Oils and fats, Edible)

ZAPARIANOV, V., insh.

Organization of forging and pressing operations in the G. Dimitrov  
State Metallurgical Plant, Ruse. Mashinostroene 12 no.2:43 F '63.

ZAPARNY, M.P.

Concerning the relation of water potential to tectonics on the territory of Mongolia. Izv. vys. ucheb. zav.; geol i razv. 7 no.10:106-114 0 '64. (MIRA 18:7)

1. Gosudarstvennyy komitet Soveta Ministrov po vodnomy khozyaystvu (Gosvedkhoz RSFSR).

ZAPARYI, M.P.

Hydrogeological results of electric prospecting in the Mongolian  
People's Republic. *Biul.MDIP.Otd.geol.* 35 no.4:149 JI-Ag '60.  
(MIRA 14:4)

(Mongolia--Electric prospecting)

ZAPARIY, M. P., YAKUBOVSKIY, Ya. V., and LYAKHOV, L. L.

"Experience Gained in the Application of Electric Prospecting in Searching for Fresh Underground Waters," *Razvedka i Otkrytiya Nedr*, No.3, pp 37-39, 1954

SO: W-3129, 2 Sep 55

ZAPARIY, M.P.

Hydrogeological conditions in the arid and semiarid zones of the Mongolian People's Republic. Izv. vys. ucheb. zav.; geol. i razv. 4 no.4:86-95 Ap '61. (MIRA 14:6)

1. Gosudarstvennyy institut po proyektirovaniya morskikh portov i sudoremontnkh predpriyatiy.  
(Mongolia--Water, Underground)

ZAPART, J.

Close contact with members. p. 7.

ROLNIK SPOLDZIELCA, Warszawa, Vol. 8, no. 28, July 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

JEZIORANSKA, Alicja; ZAPART, Wanda

Results of serological studies on cysticercosis. Polski tygod. lek.  
14 no.28:1281-1285 13 July 59.

1. (Z Zakladu Parazytologii Lekarskiej P. Z. H. w Warszawie, kierownik:  
dr med. Z. Dymowska)  
(CYSTICERCOSIS, diagnosis)

ZAPART, Wanda

The uroprecipitation test for the diagnosis of trichinellosis.  
Wiadomosci parazyt. 6 no.4:351-352 '60.

1. Department of Parasitology, State Institute of Hygiene, Warsaw,  
Poland.

(TRICHINOSIS urine)

ZAPART, Wanda

Trichinosis. Pat.polska 11 no.4:427-429 '60.

1. Z Zakładu Parazytologii Lekarskiej PZH w Warszawie, Kierownik:  
dr Z. Dynowska.  
(TRICHINOSIS)

ZAPART, Wanda

Cysticercosis in human subjects and experimental animals. Pat.  
polska 11 no.4:431-433 '60.

1. Z Zakładu Parazytologii Lekarskiej PZH w Warszawie, Kierownik:  
dr. Z. Dynowska.  
(CYSTICERCOSIS)

ZAPART, Wanda

Uroprecipitation reaction in the diagnosis of trichinosis. Polski  
tygod. lek. 16 no.18:661-663 1 My '61.

1. Z Zakladu Parazytologii Lekarskiej P.Z.H. w Warszawie; kierownik:  
dr Zofia Dymowska.

(TRICHINOSIS diag)

ZAPART, Wanda

The comparative study on serological properties of antigens deriving from the larvae of trichinella spiralis isolated from muscles of rats, rabbits and pigs. Wiad. parazyt. 8 no.6:645-650 '62.

1. Department of Medical Parasitology, State Institute of Hygiene, Warsaw.

(TRICHINELLA) (ANTIGENS) (SWINE DISEASES)  
(RABBITS) (RATS)

ZAPART, Wanda

Effect of ACTH on the uoprecipitation reaction in trichinosis  
in the rat. Wiad. parazyt. 9 no.5:477-480'63.

1. Zaklad Parazytologii Lekarskiej Panstwowego Zaklady Higieny,  
Warszawa.

\*

KEPSKI, Apolinary; SZLAMINSKI, Zbigniew; ZAPART, Wanda

Serological tests in experimental cerebral cysticercosis in rabbits. Acta parasit. Pol. 11 no.5/13:133-143 '63

1. Neurosurgical Clinic, Medical Academy, Warsaw. (Head: Prof. Dr. Lucjan Stepień) and Department of Medical Parasitology, State Institute of Hygiene, Warsaw (Head: Dr. Zofia Dymowska).

\*

DYMOŃSKA, Zofia; ZAKRZEWSKA, A.; ALEKSANDROWICZ, J.; ZAPART, Wanda;  
GANCARZ, Zygmunt

The use of fractioned *Trichinella spiralis* antigens in the diagnosis  
of trichinosis. *Wiad. parazyt.* 10 no.4:311-312 '64

1. Zakład Parazytologii Lekarskiej Państwowego Zakładu Higieny,  
Warszawa.

ZAPAFI, Wanda, National Central Institute of Hygiene, Department of Parasitology [original language version not given], Warsaw, Poland.

"Cysticercosis in Humans and in Laboratory Animals."

Jena, Angewandte Parasitologie, Vol 7, No 1, Feb 66, pages 46-47.

Abstract: [Author's English summary] Two groups of rabbits were subjected to intracerebral infection with *Cysticercus cellulosae* and to intraorbital infection with the eggs of *Taenia solium*. The complement-fixation test and the ring-precipitation test were carried out. A positive serological reaction was obtained in over 90 per cent of the animals in either group. When persons with some form of cerebral cysticercosis were given the tests, they also had positive serological reactions. 2 Eastern European references. [Manuscript presented at a congress 27-29 Mar 61.]

2473  
1/1

ZAPASIEWICZ J.

ZAPASIEWICZ, J.

Bank control over the construction of farm buildings.

p. 25 (Budownictwo Wiejskie) Vol.7, No. 4, July/Aug., 1955, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

ZAPASKO, Ya. (s. Glinyany, L'vovskoy obl.)

Art industries. Prom. koop. 12 no.3:21 Mr '58.

(MIRA 11:3)

1. Nauchnyy sotrudnik Ukrainskogo gosudarstvennogo muzeya etno-  
grafii i khudozhestvennogo promysla Akademii nauk USSR.  
(Art industries)

IMMUNA, O am 1a; KASAKHIN-SOBIENSKI, Marina; KURTYCHOWSKI, Włodzisław S;  
MURACZEWSKA, Maria

Development of allergy following inoculation with a Brazilian  
substrain of BCG and its relation to the dose of vaccine.  
pediat. Pol. 39 no.4:393-400 Ap '64.

1. Z. Gorodka Naukowo-Badawczego BCG Instytutu Gruźlicy (Dyrektor:  
dr. med. M. Juchniewicz).

BUJKO, Klaudia; ZAPASNIK-KOBIERSKA, Maria Halina; MALISZEWSKA, Zofia;  
KOSTRZENSKI, Wladyslaw

Primary drug-resistance to principal antitubercular agents  
used in children. *Pediat. Pol.* 40 no.8:773-780 Ag '65.

1. Z Kliniki Terapii Chorob Dzieci AM w Warszawie (Kierownik:  
prof. dr. med. M. H. Zapasnik-Koblerska) i z Wojewodzkiej  
Przychodni Przeciwgruzliczej w Warszawie (Dyrektor: dr. med.  
J. Gackowski).

ZAPASNIK-KOBIERSKA, Maria Halina; RUDNIK, Jan; MIANOWA, Ojowila

Interpretation of tuberculin tests in the diagnosis and prevention  
of tuberculosis. *Pediat. Pol.* 40 no.9:905-915 S 165.

1. Z Placowki Terenowej Ośrodka Naukowobadawczego BCG Instytutu  
Gruźlicy w Warszawie i z Zespołu Problemowego Instytutu Gruźlicy  
w Rabce (Konsultant naukowy: prof. dr. med. M.H. Zapasnik-Kobierska).

ZAFASNIK, Ryszard, mgr., inż.

Heat transfer from the stator core surface of induction motors.  
Przeł elektrotechn 37 no.9:358-361 '61.

(Electric machines) (Heat)

5511

Zapašnik R. Use of a Current Anemometer for the Measurement of Ventilation of Electric Machines.

533.9.08:621.313

„Anemometr prądowy w zastosowaniu do pomiarów wentylacyjnych w maszynach elektrycznych”. Przegląd Elektrotechniczny, No. 10, 1957, pp. 455-457, 6 figs.

2

The current anemometer produced in the Electrotechnical Institute Electric Machines and Drives Department consists of a resistance testing gauge and a measuring system based on the Wheatstone bridge principle. It makes possible the measurement of both the velocity and the temperature of air at the individual points of the ventilation circuit of an electric machine. The small dimensions of the testing gauge make it possible to make the measurements even in the most inaccessible places of the machine. In the case of the testing gauge being placed in the rotating part of machine, it is connected with the measuring system by means of brushes which slide on rings fitted for this purpose on the shaft. Moreover, with a suitably designed testing gauge, the changes in air stream flow can be oscillographed. The use of a current anemometer makes it possible to determine precisely the condition of the distribution of cooling air in the machine and to measure the total rate of consumption.

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ZAPASNIK, R.

ZAPASNIK, R. Resistance method of measuring the increase in the temperature of the generator's wiring while a machine is in operation. p. 272.

Vol. 16, No. 11, Nov. 1956.  
WIADOMOSCI ELEKTROTECHNICZNE  
TEHCNOLOGY  
Warszawa, Poland

So: East European Accession, Vol. 6, No. 2, Feb. 1957

ZAPASNIK, Z.

ZAPASNIK, Z. Simple way of calculating the individual nodal points.  
P. 465. Vol. 12, no. 12, Dec. 1956. PRZEGLAD GEODEZYJNY.  
Warszawa, Poland.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

ZAPASNIK, ZYGMUNT

Wzory i skroty w zakresie geodezji. (Wyd. 1.) Warszawa, Panstwowe  
Przedsiębiorstwo Wydawn. Kartograficznych, 1954. 143 p. (Formulas and abbrevia-  
tions in the field of geodesy. 1st ed. diagsr., tables)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

ZAPASNIK-KOBIERSKA, Halina; LESKIEWICZ, Halina

Role of tuberculin reactions in children in mass BCG vaccination. Gruzlica 30 no.9:827-834 '62.

1. Z Osrodka Badan Naukowych BCG Instytutu Gruzlicy w Warszawie  
Dyrektor: prof. dr med. W. Jaroszewicz.  
(TUBERCULIN REACTION) (BCG VACCINATION)  
(TUBERCULOSIS IN CHILDHOOD)

ZAPASNIK-KOBIERSKA, H.

Excerpta Medica Sec 7 Vol 9/5 May 55 Pediatrics

1162. ZAPASNIK-KOBIERSKA H. and STOPNICKA M. Centr. Poradni Przeciw-gruźliczej, Warszawie. Zapadalność na gruźlicę dzieci szczepionych BCG. Tuberculosis in BCG vaccinated children PEDIAT. POL. 1954, 29/1 (7-20) Tables 3 Illus. 3  
Among 265 children vaccinated intracutaneously with BCG and referred to the hospital with a diagnosis of pulmonary tb, the diagnosis was confirmed in only 22. In the remaining 183 cases the diagnosis was erroneous, due to misinterpretation either of radiological pictures or of clinical symptoms. Bujak - Kraków (VII, 15\*)

IWANOWA, O.; ZAPASNIK-KOBIERSKA, M.H.

Treatment of tuberculosis in infants & young children in the antituberculosis consulting unit. *Pediat. polska* 32 no.11:1211-1218 Nov 57.

1. Z Wojewodzkiej Przychodni Przeciwgruzliczej m. st. Warszawy Dyrektor: dr med. J. Gackowski. Adres: Warszawa, ul. Pasteura 10. Centr. Poradnia Przeciwgruzlicza.

(TUBERCULOSIS, PULMONARY, in inf. & child  
with lymph node tuberc., ther. (Pol))

(TUBERCULOSIS, LYMPH NODE, in inf. & child  
with pulm. tuberc., ther. (Pol))

ZAPASNIK-KOBIERSKA, M.H. (Warszawa, ul, Katowicka 8a)

Importance of the lymphatic system in tuberculosis. *Pediat. polska* 32  
no.11:1287-1292 Nov 57.

(TUBERCULOSIS, physiol.

lymphatic system (Pol))

(LYMPHATIC SYSTEM, physiol.

in tuberc.)

ZAPASNIK-KOBIERSKA, M.H.

Guide for directing children to preventoriums. *Pediat. polska* 24  
no.12:1102-1105 Dec 50. (CIME 20:5)

ZAPASNIK-KOBIERSKA, M.H., Warszawa, Katowicka 8a m.2.

Organisation of child care in the Soviet Union. *Pediat.polska*  
30 no.2:105-108 Feb '55.

(CHILD WELFARE  
in Russia, organiz.)

Z APASNIK-KOBIERSKA, M.H.

ZAPASNIK-KOBIERSKA H H.

Przypadki zapalenia opon blednie rozpoznane jako meningitis  
tbc i lezone streptomycyna. Meningitis erroneously  
diagnosed as tuberculous meningitis and treated with streptomycin  
Pediat. polska 23:7-8 Nov-Dec 49 p. 707-12.

1. Of the First Clinic of Children Diseases, Warsaw University  
(Director -- Prof. M. Michalowicz, M.D.).

EXCERPTA MEDICA Sec 7 Vol. 11/6 Pediatrics June 57

1622. ZAPASNIK-KOBIERSKA H. and STOPNICKA M. Pasteura 10, Warszawa.  
\*Porównanie wyników szczepień BCG szczepionką liofilizowaną sporządzoną ze szczepów BCG różnego pochodzenia. Comparative study of results of BCG vaccinations using lyophilized vaccine made from strains of different origin PEDIAT. POL. 1956, 31/6 (627-637) Graphs I Tables II

In Poland complications were frequent following BCG vaccination with the Danish strain. A comparative study was made of allergic reactions and incidence of complications in persons vaccinated with Brazilian, French and Danish strains. Statistical analysis of the observations made in 2244 newborns and 465 older children showed that the Brazilian strain has a slightly lower allergizing power than the 2 other strains but has a much less incidence of complications taking the form of adenitis. A dose of 0.05 mg. BCG has the same allergizing power as 0.1 mg. A dose of 0.1 mg. of the Danish or the French strain yields more cases of adenitis than does 0.05 mg. A dose of 0.1 mg. of the Brazilian strain gives the same percentage incidence of adenitis as does 0.05 mg. As a result of this work it was decided that from 1955 on the Brazilian strain would be employed in Poland.

Wegrzynowska - Cracow (XV, 7, 17)

RUDNIK, Jan; SZPUNAR, Jerzy; ZAPASNIK-KOBIERSKA, Halina

Critical analysis of previous views on lymphogenic lesions and their treatment in tuberculosis in children. Gruzlica 33 no.8: 735-743 Ag ' 65.

ZAFASNIK-KOB/ MRSKA, Halina; STOPNICKA, Marta

Incidence of tuberculosis in children vaccinated with BCG.  
Pediat pol 29 no.1:7-20 Ja '54. (REAL 3:8)

1. Z Centralnej Poradni Przeciwnrusliczej w Warszawie,  
Kierownik: dr med. J. Gackowski.

(BCG VACCINATION,

\*incidence of tuberc. in vacc. child.)

(TUBERCULOSIS, in infant and child,

\*after BCG vacc.)

BUJKO, Klaudia; ZAPASNIK-KOBIERSKA, Halina

Treatment of exudative tuberculous pleurisy by local hydrocortisone  
administrations in children. Gruzica 29 no.3:205-212 Mr '61.

1. Z Kliniki Terapii Dzieci AM w Warszawie Kierownik: prof. dr med.  
H. Brokman.

(TUBERCULOSIS PULMONARY in inf & child)  
(HYDROCORTISONE ther)

ZAPASNIK-KOBIERSKA, Halina; STOPNICKA, Marta, Warszawa, Pasteura 10.

Comparison of BCG vaccination with lyophilized preparations  
and of vaccination with preparations from BCG strains of  
various origins. *Pediat. polska* 31 no.6:627-637 June 56.

(BCG VACCINATION, statistics,  
results of vacc. with lyophilized vaccines & vaccines  
prep. from various strains (Pol))

ZAPASNIK-KOBIERSKA, M.H.; WINNICKA, E.; WILKOSZEWSKI.

Meningitis erroneously diagnosed as tuberculous meningitis and  
treated with streptomycin. *Pediatr.polska* 23 no.7-8:707-712 N-D '49.  
(CIMI 19:2)

1. Of the First Clinic of Children Diseases, Warsaw University  
(Director -- Prof. M.Michalowicz, M.D.).

*ZAPASHNOY*  
VASIL'YEV, A.; ZAPASHNOY, A.; IL'INSKIY, Ye.; PAKUSHIN, V.; SHEVCHUK, S.

Business accounting for highway-operation sections. Avt.dor.17  
no.1:6 J1-Ag'54. (MIRA 8:10)

(Roads--Estimates and costs)

ZAPASSKIY, S.I., intcont, kand.geograf.nauk

Taking into account the deformations of the Mercator projection  
in the compilation of radar charts. Sudovozhdenie no.3:73-75  
'63. (MIRA 1965)

1. Kafedra geodezii Leningradskogo vysshego inzhenernogo morskogo  
uchilishcha imeni admirala Makarova.

NIKIFOROV, B.I., prof.; ZAPASSKIY, S.I., dotsent

Permissible closing errors in polar conditions. *Izv. vya.*  
*usheb. zav.;* good. 1 aerof. no.2481-82 '65.

(MIRA 18:10)

1. Leningradskoye vyssheye inzhenernoye morakoye uchilishche  
imeni akademika Makarova. Submitted Oct. 12, 1964.



CZECHOSLOVAKIA

MEDVECKY, J.; ZAPATICKA, J.; SMALIK, S.; Department of Psychiatry, Medical Faculty, P.J. Safarik University (Katedra Psychiatric Lekarskej Fakulty UPJS), Kosice; Krajska Station of Blood Transfusions (Transfuzna Stanica), Kosice.

"Sex Chromatin of Neutrophil Leucocytes in Some Psychic Disorders."

Prague, Geskoslovenska Psychiatrie, Vol 63, No 1, Feb 67, pp 45-49

Abstract: The authors investigated the occurrence of female sex chromatin in blood smears in emulation paranoidias, paranoid conditions, and in pedophilias. 28 psychiatric patients were used in the investigation. The theory that male patients who suffer from mental aberrations would show definite characteristics of female sex chromatin could not be confirmed. Among 20 men with homosexual tendencies and 4 women with Lesbian tendencies no definite conclusions could be drawn concerning the character of the sex chromatin. 4 Figures, 5 Tables, no references. (Manuscript received 23 May 66).

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CZECHOSLOVAKIA  
"APPROVED FOR RELEASE: 09/19/2001" of CIA-RDP86-00513R001963810010-2  
Sciences, P.J. Safarik University (Katedra Biologie Prirodovedeckej Fakulty UPJS), Kosice, Head (Veduci) Docent Dr M. PRASLICKA; Faculty Blood Transfusion Station (Fakultna Transfuzna Stanica), Kosice, Head (Veduci) Dr S. SMALIK.

"Some Properties of Benzene Extracts of Human Blood Cells and of Corresponding Antibodies."

Prague, Casopis Lekarů Ceskych, Vol 105, No 27-28, 4 Jul 66, pp 756 - 757

Abstract: It is possible to obtain a benzene extract from human blood cells which shows the reaction of an antigen to many human sera. The nature of the extract depends on the age of the person whose blood was extracted. Duration of the benzene extraction has an optimum of 8 weeks. Lyophilized blood corpuscles cannot be extracted to obtain an active extract. The antigens obtained by the extraction can be heated to 56°C for 30 min. 2 Tables, 2 Western, 2 Czech references.

1/1

AUTHOR: Zapatrin, N. I. (Engineer).

97-57-9-3/17

TITLE: Use of Coarsely/Concrete for Walls of Buildings in the Arctic. (Cpyt primeneniya krupnoporistogo betona dlya sten zdaniy v Arktike).

PERIODICAL: Beton i Zhelezobeton, 1957, Nr.9. pp.343-351. (USSR).

ABSTRACT: No-fine concrete is widely used in house and factory building in the far north. The advantages of this type of concrete are: light weight, higher thermal insulation, strength, and economy in cost. In arctic weather conditions no-fine concrete walls 70-75 cm thick correspond to 2 $\frac{1}{2}$ -brick-thick walls in temperate climates. The concrete used is mark 300; qualities of the concrete are tabulated on page 348. Walls made of this concrete can be either monolithic or assembled from blocks. Wall construction with blocks does not require many skilled workers. The building is non-inflammable, and very enduring. These qualities are very important for the northern regions. In 1956 Tiksistroy Trust organized the production of such no-fine concrete blocks. The layout of the factory is shown in Fig.1. Local aggregate is used ranging from 5-60 mm and from 10-20 mm in size. The ballast is excavated by an excavator with a bucket of .5 m<sup>3</sup> capacity.

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Porous

97-57-9-3/17

Use of Coarsely/Concrete for Walls of Buildings in the Arctic.

The washing of the gravel during winter is complicated as it must be pre-heated. The weight of 1 m<sup>3</sup> of no-fine concrete varies with the porosity from 1620 - 1950 kg. The concrete mix is laid in wooden forms lined with galvanized steel. The sizes of the blocks are 150 x 70 x 50 cm and 75 x 70 x 60 cm. The concrete mix is rammed very lightly to preserve its high porosity as much as possible. Cast blocks are steam-cured at a temperature of 50-75°C for 12 hours, and are then kept for 2 days in a temperature between 14 - 16°C. The output of the factory is 15.12 m<sup>3</sup> per day; i.e. 378 m<sup>3</sup> per month. The construction of a standard 2-storey block of 8 flats requires 600 blocks with a total volume of 375 m<sup>3</sup>; i.e. the monthly output of this factory. Taking into account the increased summer production, it is possible to complete 10 - 12 such blocks of flats in a year. The simplest method of production of pre-cast reinforced concrete building units is the "stand" method. Because of the climatic conditions of the North, it is not possible to use open ground methods. In 1956 no-fine concrete blocks were manufactured in Tiksisstroy by the "stand" method. A concrete mixer of 400 l. capacity was situated in an open yard, and next to it, in another yard,

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97-57-9-3/17

Use of Coarsely/<sup>Porous</sup> Concrete for Walls of Buildings in the Arctic.

60 forms were laid, in which the blocks were cast by using cranes and special bunkers. Fig.3 shows the assembly of a house from no-fine concrete blocks. The production of these blocks is a highly mechanized process, which considerably lowers the cost. Fig.2 shows the construction of a monolithic house from in situ no-fine concrete. In this case, the concrete mix is delivered from the factory to the site, where, by means of cranes, the bunkers are lifted and emptied into prepared form-work. With full mechanization of the building processes, this method proves to be comparatively cheap. This in situ method is very difficult to carry out in winter conditions, and should be confined to the summer period. The no-fine concrete method of construction is 15% more expensive than wooden structures, but 20-30% cheaper than brick or concrete constructions. There are 3 Figures.

AVAILABLE: Library of Congress.

1. Walls-Construction
2. Concrete-Porous-Applications
3. Concrete-Preparation

Card 3/3

ZAPATERIN, N.I., inzh.

Experience in using no-fines concrete for walls of buildings in the  
Arctic. Bet. 1 shel.-bet. no.9:348-351 S '57. (MIRA 10:11)  
(Arctic regions--Walls) (Lightweight concrete)

ZAPAVALOV, P. P., Cand Tech Sci -- (diss) "Research into the effect of auxiliary chamber on the performance index of engine with forced ignition of the operating fuel." Omsk, 1960. 19 pp; (List of dissertations by Author's Name, as Defended at the Omsk Agricultural Inst im S. M. Kirov); 200 copies; free; (KL, 22-60, 136)

ZAPECA, Vaclav, inz.

Mobile earth borer on a Tatra 138 chassis. Automobil Cz  
7 no.11:340-341 N'63.

YASKEVICH, A.T.; SHULIP, V.P.; SHCHEKOLDIN, G.N.; ZAPEHEL'NYUK, F.I.

More efficient production of nepheline concentrate. Prom.energ.11  
no.5:25 My '56. (Nepheline) (MLRA 9:9)

ZAPEDOWSKI, Witold

A case of thoraco-ventral conjoined twins (thoraco-ventrophagus).  
Ginek. pol. no.4:519-524 '62.

1. Z Oddziału Położniczo-Ginekologicznego Centralnego Szpitala Klinicznego  
Kierownik: dr med. J. Higier.  
(TWINS) (MONSTERS)

DYDYNski, Jerzy; KOZLOWSKI, Piotr; ZAPEDOWSKI, Witold

Profile radiograms in hysterosalpingography. Pol. przegl. radiol.  
29 no.3:277-284 My-Je '65.

1. Z Kliniki Chorob Kobięcych i Poloznictwa Centralnego Szpitala  
Klinicznego Wojskowej Akademii Medycznej (Kierownik: doc. dr. med.  
J. Higier) oraz Zakładu Radiologii Centralnego Szpitala Klinicznego  
Wojskowej Akademii Medycznej (Kierownik: dr. med. A. Kaczurba).

*Zapodowski, Z.*

6024. I. Accessory heads of the biceps brachii muscle. I. An  
Ventral origin of the biceps brachii long head. *Zapodowski, Folia  
morph. Warszawa*, 1958, 7, 63-66 (2 Zaklady Anatomii i Fizi-  
ologii A.M. i L. L. Pruski) — Accessory head of biceps brachii is  
not to be present in 73% of cases. A case in which the long head  
of biceps brachii muscle of the shoulder joint is described. Polish

ZAPEDOWSKI, Zbigniew.

Morphology of the obliquus externus abdominis with special reference to constitutional physical characteristics. *Pol. morph.*, Warsz. 6 no.3:181-191 '55.

1. Z Zakładu Anatomii Prawidłowej A.M. w Łodzi, Kierownik:  
prof. dr T. Wasilewski.

(THORAX, muscles,  
obliquus externus abdominis, anat. & constitutional  
aspects)

(BODY CONSTITUTION,  
constitutional aspects of obliquus externus abdominis)

ZAPEDOWSKI, Zbigniew

Two cases of variation in the vascularization of the thyroid gland. Folia morphol 21 no.1:63-68 '62

1. Zakład Anatomii Prawidłowej Akademii Medycznej w Łodzi, kierownik: prof. dr. T. Wasilewski

+

ZAPEKIN, P. Ya.

BESHKETO, V.K., inzhener (stantsiya Cheremoshniki); SHAPOCHKIN, P.Ya.  
(stantsiya Cheremoshniki); ZAPEKIN, P.YA. (stantsiya Cheremosh-  
niki).

Container for transporting lumber. Zhel.dor.transp.39 no.1:69-70  
Ja '57. (MLRA 10:2)  
(Lumber--Transportation)

ZARNEINA DULIKEYT, Yu. I.

Among the Plecoptera of the Far East. Soob. DVFAH SSSR no. 11:  
147-149 '59. (MIRA 13:11)

1. Gosudarstvennyy zapovednik "Stolby".  
(Soviet Far East--Stone flies)

ZAPEKINA-DUL'KEIT, Yu.I.  
ZAPEKINA-DUL'KEIT, Yu.I.

Stone flies of the northeastern Altai. Zam. po fauna i flore Sib.  
no.18:30-38 '58. (MIRA 11:1)

1. Gosudarstvennyy zapovednik "Stolby."  
(Altai Territory--Stone flies)

ZAFERINA-DUL'KEYT, Yu.I.; DUL'KEYT, G.D.

Zoobenthos in Kanga Bay (Lake Teletskoye) and its significance as  
fish food. Trudy Gidrobiol.ob-va 7:216-236 '56. (MLRA 10:2)

1. Gosudarstvennyy zapovednik "Stolby."  
(Teletskoye, Lake--Fresh-water fauna) (Fishes--Food)

ZAPEKINA-DUL'KEYT, Yu.I.

Three new species of stoneflies (Plecoptera) from the Gornyy Altai  
and the Sayan Mountains. Ent. oboz. 39 no.3:666-670 '60.  
(MIRA 13:9)

1. Gosudarstvennyy zapovednik "Stolby".  
(Chulyshman Valley--Stoneflies)  
(Sayan Mountains--Stoneflies)

~~ZAPEKINA-DUL' KBYT, Yu. I.~~

Data on stone flies (Plecoptera) of the Teletskoye Lake Basin.  
Ent.oboz. 34:167-177 '55. (MIRA 9:5)  
(Teletskoye Basin--Stone flies)

ZAPENIN, I.V., inzh.; KARBASOV, O.G., inzh.; SOLOD, G.I., kand. tekhn. nauk

Elastic properties of conveyor belts. Vop. rud. transp. no. 7:  
74-81 '63. (MIRA 16:9)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki  
(Conveying machinery--Testing)

MARKHEL', Pavel Sil'vestrovich, kand. tekhn.nauk; SMELOV, Sergey Vasil'yevich, master-konditer; MASLOV, Ivan Nikolayevich, kand. tekhn. nauk; DANILEVSKAYA, Valentina Vladimirovna, kand. tekhn. nauk; GOPENSHTeyN, Yuriy Lazarevich, inzh.; VIDANOV, Konstantin Kharitonovich, inzh.; ZAPENINA, Nina Vasil'yevna, kand. tekhn. nauk; SOKOLOVA, Nina Ivanovna, tekhnolog; PRITYKINA, L.A., red.; KISINA, Ye.I., tekhn.red.

[Confectionery products made with flour] Muchnye konditerskie izdelia. [By] P.S.Markhel i dr. Moskva, Pishchepromizdat. Pt.1.[Making of pastries, torten, cakes, oriental and dietetic products] Proizvodstvo pirozhnykh, tortov, keksov, vostochnykh i dieticheskikh izdelii. 1962. 679 p.

(MIRA 16:7)

(Baked products)

ZAPENINA, N. V. Cand Tech Sci -- (diss) "<sup>Mellis</sup>~~Mellis~~ of improving the quality of  
liquid yeast." Mos, 1958. 20 pp with diagrams (Min of Higher Education USSR  
Mos Technological Inst of Food Industry), 100 copies (KL, 14-58, 113)

MASLOV, Ivan Nikolayevich; CHIZHOVA, Klavdiya Nikolayevna; SHKVARKINA,  
Tat'yana Ivanovna; ZAPENINA, Nina Vasil'yevna; ZAGLODINA,  
Fedosiya Ivanovna; PLOTNIKOV, P.M., kand. tekhn.nauk, retsenzent;  
CHINCHUK, A.M., inzh., retsenzent; PRITYKINA, L.A., red.; SOKOLOVA,  
I.A., tekhn.red.

[Technological and chemical control of the baking industry] Tekhno-  
khimicheskii kontrol' khlebopekarnogo proizvodstva. Izd.3., perer.  
i dop. Moskva, Pishchepromizdat, 1960. 359 p. (MIRA 13:9)  
(Bakers and bakeries)

MASLOV, Ivan Nikolayevich; ZAPENINA, Nina Vasil'yevna; SOKOLOVA, Nina  
Ivanovna; SOKOLOVSKIY, A.L., prof., retsentsent; FUKS, V.K., red.;  
GOTLIB, E.M., tekhn.red.

[Manufacture of oriental candies and pastry] Proizvodstvo vostochnykh  
sladostei. Moskva, Pishchepromizdat, 1959. 97 p. (MIRA 12:12)  
(Confectionery)

ZAPESOSHNAYA, G. E.

USSR/Pharmacology. Toxicology. Toxicology.

V

Abs Jour : Ref Zhur-Biol., No 8, 1958, 37725

Author : Zapesoshnaya G. E.

Inst : ~~Not given~~

Title : Neurology of Granozan Intoxication ( Nevrologiya intoksikatsii granozamom)

Orig Pub : B sb.: Vopr. klin. nevrapatol. Irkutsk, 1957, 123-134

Abstract : Granozan is widely utilized for the treatment of seed and contains 2 to 2.5% of  $C_2H_5 \cdot HgCl$ . Five cases of acute granozan intoxication caused by the introduction of the treated seed into food are described. Polydipsia, polyurea (specific weight of urine 1005-1007), progressive sharp loss of weight, general debility were noted. Simultaneously: a burning sensation in the epigas

Card 1/2

ZAPESICHNAYA, G.G.; KYSHTYMOVA, T.V.; BAN'KOVSKIY, A.I.; KIBAL'CHICH, P.N.

Plant polyphenols. Report No.2. Polyphenols of the flowers of  
Godetia whitneui Gray. Khim. prirod. soed. no.5:347-350 '65.  
(MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh  
i aromatischeskikh rasteniy. Submitted November 12, 1964.

GORBACHEVA, I.N.; LERNER, M.I.; ZAPSOCHNAYA, G.G.; VARNAKOVA, L.P.;  
PRROBRAZHENSKIY, N.A.

Investigation of magnolamine alkaloid derivatives. Zhur. ob. khim.  
27 no.12:3353-3357 D '57. (MIRA 11:3)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii.  
(Magnolamine) (Alkaloids)

ZAPESOCHNAYA, G. G.; PREOBRAZHENSKIY, N. A.

Lipides. Part 14: Synthesis of some triglycerides from cocoa  
butter. Zhur. ob. khim. 32 no.12:3898-3901 D '62.  
(MIRA 16:1)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni  
M. V. Lomonosova.

(Glycerides) (Cacao butter)

ZAPESOCHNAYA, G. G.; LESHCHINER, A. S.; SHCHEDRINA, M. M.; RUSTSOV, I. A.;  
PREOBRAZHENSKIY, N. A.

Lipides. Part 15: Synthesis of some triglycerides from cocoa  
butter. Zhur. ob. khim. 32 no.12:3901-3906 D '62.  
(MIRA 16:1)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni  
M. V. Lomonosova.

(Glycerides) (Cacao butter)

ZAPESOCHNAYA, G. G.; ZVONKOVA, Ye. N.; MITROFANOVA, T. K.;  
SEREBRNNIKOVA, G. A.; SARYCHEVA, I. K.; PREBRACHENSKIY, N. A.

Lipides. Part 16: Synthesis of triglycerides, constituents of  
cocoa butter. Zhur. ob. khim. 32 no.12:3906-3909 D '62.  
(MIRA 16:1)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni  
M. V. Lomonosova.

(Glycerides) (Cacao butter)

SEREBENNİKOVA, G.A.; ZVONKOVA, Ye.N.; ZAPESOCHNAYA, G.G.; SARYCHEVA,  
I.K.; PREGRAZHENSKIY, N.A.

Lipides. Part 18: Synthesis of the glyceride constituents of  
corn oil. Zhur.ob.khim. 33 no.2:437-440 F '63; (MIRA 16:2)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni  
M.V.Lomonosova. (Corn oil) (Glycerides)

ZAPESOCHNAYA, G.G.; SARYCHEVA, I.K.; PREOBRAZHENSKIY, N.A.

Lipids. Part 20: Synthesis of dodecanoic (lauric) acid. Zhur.  
ob. khim. 33 no.8:2552-2555 Ag '63. (MIRA 16:11)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni  
M.V. Lomonsova.

MITROFANOVA, T.K.; KRAYEVSKIY, A.A.; SREBRENNIKOVA, G.A.; KLYKOV, V.N.;  
ZVONKOVA, Ye.N.; ZAPESCHNAYA, G.G.; SARYCHEVA, I.K.; PREEOBRAZHENSKIY,  
N.A.

Complete synthesis of the glyceride base of vegetable oils and  
animal fats. Dokl. AN SSSR 160 no.1:133-136 Ja '65.

(MIRA 18:2)  
1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V.  
Lomonosova. Submitted July 4, 1964.

ZAFESCOHNAYA, G.G.; KOVTUN, I.A.; SARYCHEVA, I.K.; PREOBRAZHENSKIY, N.A.

Synthesis of 1,12-dodecanolide. Zhur.ob.khim. 33 no.7:2133-2136  
Jl '63. (MIRA 16:8)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni  
Lomonosova. (Dodecanilide)

ZAPESOCHNAYA, G.G.; BAN'KOVSKIY, A.I.

Plant polyphenols. Part 1: Chemical composition of the  
leaves of *Rhododendron aureum* Georgi. *Khim.prirod.soed.*  
no.4:289-292 '65.

(MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh  
i aromaticeskikh rasteniy. Submitted November 21, 1964.

ZAPESCHNYI, I. P.

Dissertation: "Determination of the Functions of Excitation of Energy Levels of Atoms in Accordance With Optical Excitation Functions." Cand Phys-Math Sci, Leningrad State U, Leningrad, 1953. (Referativnyy Zhurnal--Fizika--Moscow, Apr 54)

SO: SUM 243, 19 Oct 1954

ZAPESCHINYY, I. P.

460

Determination of the action of exciting the energy levels of mercury atoms by an optical excitation scheme. I. P. Zapesochinyy. Vestnik Leningrad. Univ. 9, No. 11, Ser. Mat. Fiz. i Khim. No. 6, 97-98 (1964).--An improved excitation tube (based on Haule's original, C.A. 23, 5102) is used for exciting Hg vapor by an electron stream, and a photoelec. method is developed for measuring the intensity of 8 lines in the visible spectrum of Hg. V. H. Gottschalk

PM

ZAPESUCHNY, I.P.

USSR.

Determination of the excitation functions of the energy levels of mercury from the optical excitation functions. (62)

G. E. Nezh and I. P. Zapesochnyi (Phys. Inst., A. A. Zhdanov State Univ., Leningrad). *Doklady Akad. Nauk S.S.S.R.* 95, 971-4 (1954).—Optical excitation functions, which represent the dependence of the intensity of Hg lines upon the energy of the exciting electrons, have been detd. experimentally. For the lines 5491 Å. ( $6^1P_1 - 7^1S_1$ ), 4078 Å. ( $6^1P_1 - 8^1S_1$ ), 4165 Å. ( $6^1P_1 - 6^3S_1$ ), and 4078 Å. ( $6^1P_1 - 7^1S_1$ ) these functions are represented graphically. The first max. of these curves can be ascribed to the higher energy levels of these transitions; further max., which in some cases are stronger than the first max., are ascribed to other energy levels. The excitation functions of these energy levels are obtained by analyzing the optical excitation functions. E. Gora.

ЗАПЕСОЧНЫЙ

FRISH, S.E.; ZAPESOCHEV, I.P.

Role of cascade transitions in the excitation of spectral lines.  
Izv. AN SSSR. Ser. fiz. 19 no.1:5-6 Ja-Y '55. (MLA 8:9)

1. Fizicheskiy institut Leningradskogo gosudarstvennogo universi-  
teta imeni A.A.Zhdanova  
(Spectrum analysis) (Spectrometer)

sov/58-59-5-11712

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 5, p 257 (USSR)

AUTHORS: Kishko, S.M., Zapesochnyy, I.P.

TITLE: Some Results of Investigating Excitation Functions of Ionized Nitrogen Molecular Bands

PERIODICAL: Dokl. i soobshch. Uzhgorodsk. un-t, 1958, Nr 2, pp 49 - 50

ABSTRACT: The authors investigated the excitation functions of the (0,1) and (0,0) bands of the negative system of nitrogen in the visible region (4,728 and 3,914 Å). The measurements were carried out at a nitrogen pressure of  $2 \times 10^{-3}$  mm Hg in the excitation tube. The curve describing the excitation function for the (0,0) band has peaks at the following values of the electron accelerating potential: 18.5, 28.4, 51.8, 68.4, 85.0 and 95.0 v. The authors advance possible explanations for the observed peaks.

O.A.Sh.

Card 1/1

ZAPESOCHNYY, I. P.

109-3-19/23

AUTHORS: Kishko, S.M. and Zapesochnyy, I.P.

TITLE: Influence of Nitrogen on the Emission Characteristics  
of an Oxide Cathode (Vliyaniye azota na emissionnyye  
svoystva oksidnogo katoda)PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol. III, No. 3,  
pp. 433 - 435 (USSR).

ABSTRACT: The investigation reported was carried out in a special vacuum tube, consisting of a directly-heated cathode, an anode and a special electron-receiving electrode. The tube is shown diagrammatically in Fig. 1. The electrodes and the cathode core were made of nickel foil. The oxide layer was produced by coating the core with an acetone solution of Ba-Sr carbonate; the coating was then activated. The current flowing to the receiving electrode (in  $\mu\text{A}$ ) as a function of the nitrogen pressure for 4 different tubes is shown in Fig. 3. From this, it is seen that the emission capacity of the cathode is not appreciably affected by the presence of nitrogen provided its pressure is less than  $10^{-2}$  mmHg; if the pressure is increased, the emission decreases very rapidly.

There are 3 figures and 5 references, 3 of which are English and 2 Russian.

ASSOCIATION: Uzhgorod State University (Uzhgorodskiy gosudarstvennyy

109-3-19/23

Influence of Nitrogen on the Emission Characteristics of an Oxide  
Cathode

universitet)

SUBMITTED: April 22, 1957

AVAILABLE: Library of Congress  
Card 2/2

2 APES OCHNY, F.P.

66702  
Granovskiy, V.L., Luk'yanov, S.Yu., Spivak, G.V. and  
Sirotenko, I.G.  
Report on the Second All-Union Conference on Gas  
Electronics  
pp 1359 - 1358 (USSR)

PERIODICAL: Radiotekhnika i elektronika, 1959, Vol. 4, No. 5.  
ABSTRACT:

The conference was organized by the USSR State University, Ministry of Higher Education and Science. The organizing committee, headed by the chairman of the USSR Academy of Sciences, M.A. Leontovich, Academician. During the plenary sessions of the conference, a number of survey papers were delivered. L.A. Aklonovich read a paper on "Production of Ultra-high Temperatures in Plasma". A survey of the optical method of measurements was given in the papers by V.A. Fabrikant and S.E. Frish. S. Brova of the Institute of High-Frequency Electronics of the USSR Academy of Sciences gave a survey of the high-frequency methods of the investigation of stationary and non-stationary plasma (see p 1344 in this issue of the journal).

S.V. Kozlov read a paper entitled "Ionization and Excitation of Atoms During Atomic Collisions". X. M. Zhurav and Yu.M. Kaban deal with "Elementary Processes of Detaching the Motion of Ions in Gas". The role of resonance recharging in the kinetics of gas discharges is discussed by Ye. Bederu (Rumania) dealt with "The Role of Resonance Recharging in the Kinetics of Gas Discharges". I.S. Stokolnikov considered the initial stages of the development of sparks (corona-leader, main channel and the final channel).

B.M. Klyarfeld gave a survey of the ignition processes of the discharges in highly rarified gases. The mechanism of the breakdown of a high-vacuum gap was elucidated in a paper by V.L. Granovskiy.

L. Tomka (USA) expounded a theory of the motion of electrons in a magnetic trap (see p 1316 of this journal). Academician R. Rompe (Eastern Germany) described a number of experiments on non-stationary plasma conducted by himself.

M. Stumbeck (Eastern Germany) gave a generalized theory of the plasma. The conference was divided into six sections. The first section was presided over by L.A. Jena and was concerned with the elementary processes in gas discharges. The following papers were presented in this section:

Ya.M. Fogal - "Investigation of Positive Ions into Negative Ions in a Magnetic Trap";  
Ya. M. Fogal with V.A. Amudimov and D.V. Pilyenko - "Capture and Loss of Electrons During the Collision of Fast Atoms of Carbon and Hydrogen with the Molecules of Methyl Alcohol";  
M.V. Fedoranko et al. - "Dissociation of Molecular Ions of Hydrogen During Collisions in Gas";  
I.P. Flaks and Ya.S. Solov'yev - "Capture Cross-sections of Electrons in Multicharge Ions in Inert Gases";  
R.M. Kuzhir et al. - "Experiments on Investigation of the Resonance Recharging in Certain Single-atom Gases and Metal Vapours";  
O.B. Firsov - "Qualitative Investigation of Inelastic Collisions of Electrons with Molecules";  
L.M. Yudin - "Effective Excitation Cross-sections of the Spectral Lines of Potassium and Argon";  
L.A. Jena - "Elementary Processes in Gas Discharges";  
L.A. Jena and S.M. Kiseko - "Some Results of the Investigation of the Optical Functions of the Excitation Bands of the Positive Ions";  
B.M. Klyarfeld and A.G. Vlasov - "Investigation of the Scattering of the Electrons in a Rotatron Chamber";  
The second section was presided over by B.M. Klyarfeld and was devoted to the problems of the electrical breakdown in rarified gases and in high vacuum. The following papers were read in this section:

G.Ya. Makar-Limanov and Yu.A. Mikhlin - "Electrostatic Control of the Ignition of Glow-discharge Tubes" (see p 1274 of the journal);  
S.V. Piteyn et al. were concerned with the breakdown in a high-voltage mercury rectifier (see p 1278 of the journal);  
The excitation of the discharges in non-uniform fields at low gas pressures" (see p 1360 of the journal);  
A.G. Vlasov and B.M. Klyarfeld - "The Discharge Phenomena Between a Point and a Plane at Gas Pressures of  $10^{-3}$  -  $1$  mm Hg".

Card 1/14

24 (7)

AUTHORS:

Zapesochnyy, J. P., Kishko, S. M.

SOV/48-23-8-7/25

TITLE:

Some Results of the Investigation of the Excitation Functions  
of Bands of the Negative System  $N_2^+$ 

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959;  
Vol 23, Nr 8, pp 965 - 967 (USSR)

ABSTRACT:

For various scientific and practical problems it is important to know the excitation functions of the atoms and molecules. It is ascertained that of the diatomic molecules only the excitation function of nitrogen and carbon monoxide has hitherto been investigated. The photographic- and photoelectric methods used in previous investigations are briefly dealt with and the experimental methods by which the intensities of the bands of  $N_2^+$  were here determined, are described. Control experiments to clarify the influence of nitrogen pressure, the intensity of the electron excitation current, and other factors, were carried out to determine the conditions warranting the production of a non-distorted excitation function. Of the results the excitation curves for the wave lengths  $\lambda = 4278 \text{ \AA}$  and  $\lambda = 3914 \text{ \AA}$

Card 1/2

Some Results of the Investigation of the Excitation SOV/48-23-8-7/25  
Functions of Bands of the Negative System  $N_2^+$

are shown in the diagram of figure 1. In the diagram of figure 2 two curves are shown for the beginning of the plateau of the excitation function of the  $0 \rightarrow 1$  bands. With increasing pressure the maxima of these curves become level. Finally, the computation of the electron level is briefly dealt with. The authors thank S. E. Frish for his assistance and valuable advice. There are 2 figures and 9 references, 5 of which are Soviet.

ASSOCIATION: Uzhgorodskiy gos. universitet (Uzhgorod State University)

Card 2/2

23356 S/058/61/000/005/044,053  
A001/A101

9,4120(1003,1140)

AUTHORS: Psl'tsan, F.V., Zapesochnyy, I.P.

TITLE: An experimental installation for studying excitation functions of inert gases

PERIODICAL: Referativnyy zhurnal. Fizika, no. 6, 1961, 342, abstract 6Zh118 ("Dokl. i sobshch. Uzhgorodsk. un-t. Ser. fiz.-matem. n.", 1960, no. 3, 41 - 42)

TEXT: Optical excitation functions of Ne three lines were determined by the method of electron beam excitation in a discharge tube. The experimental installation differed from that described earlier (RZhFiz, 1955, no. 8, 17651) by the use of a heated oxide cathod, which made it possible to improve the monokineticity of the electron beam. Cathodes, manufactured by applying an oxide mass suspension with subsequent vaporization of acetone, increase emission current 2.5 times as compared with cathodes produced in plants; the straggling of speeds is reduced to 0.6 - 0.85 ev for 90% electrons arrived at the receiver. Moreover, the life time of these cathodes proved to be by far longer under conditions of the

Card 1/2

23366 8/058/61/000/006/044/063  
A001/A101



An experimental installation ...

experiments. The excitation function of line 4704 Å has a maximum at 50 - 55 ev, line 4379.5 Å has a flat maximum at 52 - 56 ev, and non-separated lines 5804.1 and 5804.45 Å have a maximum at 58 - 63 ev.

D. Orlinakiy

[Abstracter's note: Complete translation]

Card 2/2

ZAPESOCHNYY, I.P. [Zapischnyi, I.P.]; SHEVERA, V.S.

Excitation functions of the visible triple of cadmium  $5^3 P_{012} - 6^3 S_1$ . Ukr. fiz. zhur. 5 no. 5:650-655 S-O '60. (MIRA 14:4)

1. Uzhgorodskiy gosudarstvennyy universitet.  
(Cadmium) (Collisions (Nuclear physics))